

BEST AVAILABLE COPY

SAM(1343).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Applicant: JEAN-YVES CHENARD ET AL : Group 153

Serial No.: 254,313 : Examiner:
V. Hoke

Filed: April 15, 1981 :

For: IMPROVEMENT IN THE STABILIZATION
OF VINYL HALIDE POLYMERS

SUPPLEMENTAL DECLARATION OF M. FOURE -- 37 CFR 1.131

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

I, MICHEL FOURE, do hereby declare that:

1. I am a Doctor Rerum Natur in Chemistry; this degree was conferred on me by the State University of Wurzburg (West Germany) in 1975; I did post-doctorate research in chemistry at the University of Osaka (Japan) from 1975-1977.
2. I was employed at the Lacq, France, Research Centre of Societe Nationale Elf Aquitaine from 1977 to 1980, doing research in cosmetics and fragrances, lubricants, process development, organotin biocides and polyvinyl chloride stabilizers; in 1980 I became employed by M&T Chemicals Inc., at Rahway, New Jersey, as a Research Associate in the Polyvinyl Chloride (PVC) Additives Group; in 1981 I was promoted to the position of Manager, PVC Additives Group; I hold five patents in the field of stabilization of PVC; I am familiar with the literature and state of the art related to the stabilization of PVC.

3. I am intimately familiar with the invention of Chenard, et al relating to the use of certain mercaptoesters in conjunction with an organotin stabilizer to stabilize polyvinyl chloride with respect to heat.
4. My Affidavit under 37 CFR 1.131, signed on December 19, 1983 is hereby incorporated by reference.
5. It was my opinion, when I first read the Chenard et al, French Patent No. 2,434,835 that a reasonably skilled chemist familiar with the art and literature related to stabilization of PVC would know that a variety of organotin compounds in addition to the compounds specifically named could successfully be used in combination with the described mercaptoesters; I continue to be of that opinion.
6. It was my belief that halogen-containing organotin compounds could successfully be used in combination with the described mercaptoesters; my opinion in this respect was based on my familiarity with the work of Chenard et al and with the prior art, which includes patents such as:

Molt.....	U.S. Patent.....	3,970,678
Wowk.....	U.S. Patent.....	3,758,537
Wowk.....	U.S. Patent.....	3,758,536
Wowk.....	U.S. Patent.....	3,758,341
Larkin.....	U.S. Patent.....	3,715,333
Wowk.....	U.S. Patent.....	3,665,025
Wowk.....	U.S. Patent.....	3,655,613
Kugele.....	U.S. Patent.....	4,118,371
Kugele.....	U.S. Patent.....	4,062,881
Kugele.....	U.S. Patent.....	3,979,359
Bakassian.....	U.S. Patent.....	3,943,099
Brecker.....	U.S. Patent.....	3,630,992
Albright & Wilson..	British Patent..	1,117,652

BEST AVAILABLE COPY
-3-

7. My belief that halogenated organotin compounds could be used in combination with mercaptoesters to obtain improved performance was confirmed by the experimental work described in my Affidavit of December 19, 1983, and it was clear, prior to December 12, 1980, that halogen-containing organotin compounds, in combination with mercaptoesters, gave improved results in respect of stabilization of PVC and that halogen-containing organotin compounds which were themselves known to be useful PVC stabilizers, could be used in combination with the mercaptoesters to stabilize PVC.

7-13-1984

Date



Michel Foure

Sworn to and subscribed before me on the date
aforesaid by Michel Foure.


Notary Public

BARBARA WHEATON
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires March 28, 1987